

**Listing of the Claims:**

The following is a complete listing of all the claims in the application, with an indication of the status of each:

- 1        1 (Currently Amended). A method of updating a program in a terminal device such that update data and an existent program ~~may be~~ are stored separately within said terminal device, wherein
  - 4              if a transmission of update data from a base station to a terminal device is interrupted due to any disconnection between them, then after ~~it is verified~~ verifying that the terminal device becomes re-connected to the base station, ~~re-starting~~ said transmission process is ~~re-started~~ for remaining parts only of the update data;
  - 9              ~~dividing~~ said update data ~~are divided~~ into a plurality of data sets by said base station, ~~and~~ said plural plurality of data sets ~~are~~ being added with sequential pointers respectively; and
    - 12              verifying by an arithmetic unit of the terminal device ~~verifies~~ a pointer of a completely received ~~final~~ update data set and determines determining a next pointer in connection with ~~the~~ a next data set which should be received next after the terminal device becomes re-connected to the base station.
2. (Canceled).

- 1        3 (Currently Amended) . The method as claimed in claim 1, wherein after ~~one with~~ a next pointer for said remaining data set is confirmed, then transmitting a ~~the~~ data set with the next pointer by the base station ~~is first transmitted during said re-transmission processes.~~

- 1        4 (Currently Amended). The method as claimed in claim 1, wherein after all of said update data are transmitted, then automatically starting an operation test by the arithmetic unit ~~is automatically started.~~

1       5 (Currently Amended). The method as claimed in claim 3, wherein after  
2       all of said update data are transmitted, then automatically starting an  
3       operation test by the arithmetic unit is automatically started.

1       6 (Currently Amended). A terminal device including:  
2              a receiving unit for receiving update data transmitted;  
3              an updating unit for receiving said update data and updating an  
4       existent program with said update data, such that said update data and  
5       existent program may be are stored separately within the terminal device  
6       them;  
7              an additional unit for transmitting said remaining data sets with  
8       reference to pointers added to said data sets;  
9              an arithmetic unit for verifying a pointer of a completely received  
10       final update data set and determining a next pointer in connection with the  
11       a next data set which should be received next; and  
12              a re-starting unit for re-starting transmission process of remaining  
13       non-transmitted parts of the update data, after it is verified that the terminal  
14       device becomes connected to the base station, if a transmission of update  
15       data from a base station to a terminal device is interrupted due to any  
16       disconnection between them.

7. (Canceled)

1       8 (Currently Amended). The terminal device as claimed in claim 6,  
2       wherein after all of said update data are transmitted, then an operation test  
3       is automatically started by said arithmetic unit.

1       9 (Currently Amended). The terminal device as claimed in claim 8, further  
2       including a re-writing unit for rewriting an updated program into said  
3       extent program.

1        10 (New). A method of updating operation system software in a mobile  
2        terminal device by transmitting update data from a base station to the  
3        mobile terminal device comprising the steps of:

4                dividing the update data into a plurality of data sets by the base  
5        station;

6                transmitting the plurality of data sets by the base station with  
7        sequential pointers for each of the data sets to the mobile terminal device;

8                receiving the data sets with the sequential pointers by the mobile  
9        terminal device;

10                storing normal operation system software in a first storage area of  
11        the mobile terminal device;

12                storing the received data sets by the mobile terminal device in a  
13        third storage area of the mobile terminal device separate from the first  
14        storage area;

15                if a transmission of update data from the base station to the mobile  
16        terminal device is interrupted, then after verifying that the mobile terminal  
17        device is connected to the base station, confirming a next pointer for a  
18        remaining data set to be received and transmitting a data request with the  
19        next pointer by the mobile terminal device to the base station to re-start  
20        transmission of data sets beginning with the remaining data set;

21                after all data sets are received by the mobile terminal device,  
22        automatically performing an operation test on the update data to verify  
23        operation of updated operation system software; and

24                writing update data from the third storage area to the first storage  
25        area and resuming normal operation by the mobile terminal device.

1        11 (New). The method of updating operation system software in a mobile  
2        terminal device recited in claim 10, further comprising the step of copying  
3        the normal operation system software from the first storage area to a  
4        second storage area while updating operation system software.

1       12 (New). The method of updating operation system software in a mobile  
2       terminal device recited in claim 11, wherein if the update data includes  
3       defective data as determined by the operation test, further comprising the  
4       steps of:

5              copying the normal operation system software from the second  
6       storage are to the first storage area;

7              operating by the mobile terminal device using the normal operation  
8       system software stored in the first storage area; and

9              sending by the mobile terminal device an update request to the base  
10      station.

1       13 (New). The method of updating operation system software in a mobile  
2       terminal device recited in claim 10, further comprising the step of  
3       transmitting by the mobile terminal device a notice to the base station that  
4       the operation system software was completely updated.

1       14 (New). The method of updating operation system software in a mobile  
2       terminal device recited in claim 10, wherein the operation test is performed  
3       by transmission and receiving operations between the mobile terminal  
4       device and the base station.

1       15 (New). A mobile terminal device which communicates with a base  
2       station and receives updated operation system software from the base  
3       station comprising:

4              a transmitter unit for transmitting data requests to the base station;  
5              a receiver unit for receiving update data sets from the base station,  
6       update data being divided into data sets and transmitted with sequential  
7       pointers by the base station; and

8              a processor unit including a first storage area for storing system  
9       software for normal operation, a second storage area for providing a save  
10      area to the system software, the second storage area electrically connected  
11      to the first storage area, a third storage area for storing a updated operation

12 system software, and an arithmetic unit operable based on normal  
13 operation system software stored in first storage area;  
14 wherein the arithmetic unit stores received data sets in the third  
15 storage area and if transmission of update data from the base station to the  
16 mobile terminal device is interrupted, then after verifying that the mobile  
17 terminal device is connected to the base station, confirming by the  
18 arithmetic unit a next pointer for a remaining data set to be received and  
19 transmitting a data request by the transmitter unit to the base station to re-  
20 start transmission of data sets beginning with the remaining data set, and  
21 after all data sets are received by the mobile terminal device, automatically  
22 performing an operation test by the arithmetic unit to verify operation of  
23 updated operation system software, the arithmetic unit then writing update  
24 data from the third storage area to the first storage area and resuming  
25 normal operation of the mobile terminal device.

1 16 (New). The mobile terminal device recited in claim 15, further  
2 comprising:

3 a display unit; and  
4 an operational unit;

5 wherein the arithmetic unit instructs the display unit to display that  
6 operation system software is being updated and inhibits any inputs from  
7 the operation unit during an updating process.

1 17 (New). The mobile terminal device recited in claim 15, wherein the  
2 arithmetic unit copies the normal operation system software from the first  
3 storage area to the second storage area while updating operation system  
4 software.

1 18 (New). The mobile terminal device recited in claim 17, wherein if the  
2 update data includes defective data as determined by the operation test, the  
3 arithmetic unit copies the normal operation system software from the  
4 second storage are to the first storage area, operates using the normal

5       operation system software stored in the first storage area, and sends an  
6       update request to the base station by the transmitting unit.

1       19 (New). The mobile terminal device recited in claim 15, wherein the  
2       arithmetic unit transmits by the transmitting unit a notice to the base  
3       station that the operation system software was completely updated.

1       20 (New). The mobile terminal device recited in claim 15, wherein the  
2       operation test performed by the arithmetic unit is by transmission and  
3       receiving operations between the mobile terminal device and the base  
4       station.